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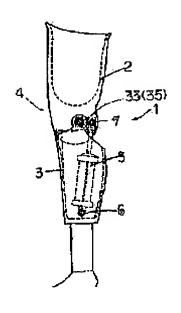
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### (54) LEG PLAY PHASE CONTROLLED ARTIFICIAL LEG

## (57)Abstract:

PURPOSE: To provide a leg play phase controlled artificial leg which has a function of enabling walking and running varying the speed thereof properly concerning an artificial leg.

CONSTITUTION: A thigh frame 2 and a lower thigh frame 3 are pivoted on a knee part 4 bendable relatively. Air cylinder 5 is interposed between the thigh frame 2 and the lower thigh frame 3. Moreover, a rotary damper 33 is arranged at a pivoted part between the thigh frame 2 and the lower thigh frame 3 and aids the air cylinder 5 to lower the degree of buffering of the air cylinder in



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running. Then, dynamic resistance of an air flow of the air cylinder 5 and the working condition of the rotary damper 33 are controlled properly according to a working speed of an artificial leg thereby achieving any operation from walking slowly to running under an automatic adjustment.

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